

The VI Nanomedicine School is dedicated to Master students, PhD students, early stage researchers, and whoever is interested in an introduction to this rather new field of research.

The scientific programme includes the following topics:

- Nanomaterials for nanomedicine
- Tissue engineering
- Therapeutics nanotechnological approaches

Scientific Committee

Tatiana Da Ros, *UniTS and INSTM*
Cinzia Giannini, *CNR-IC and INSTM*
Claudio Sangregorio, *CNR-ICCOM and INSTM*

Organizing Committee

Mariella Liberti, *CNR - ICCOM*
Beatrice Muzzi, *CNR - ICCOM*
Teresa Sibillano, *CNR - IC*
Claudia Innocenti, *UniFI*



Date 9th - 11th October 2024
Place Florence, Auditorium of Santa Apollonia
Info <https://www.ba.ic.cnr.it/nanomedicine2024/nanomedicine2024@gmail.com>

Scientific program

October 9th

14:00 - 14:30 **Registration**

14:30 - 15:00 **Welcome**

Session 1 - Tissue engineering

15:00 - 16:00 **Targeting an old story waiting for solutions**

Luisa De Cola - University of Milan and Institute of Pharmacological Researches Mario Negri

16:00 - 17:00 **Living materials for biomedicine**

Gianluca M. Farinola - University of Bari "Aldo Moro"

17:00 - 17:15 **Research Infrastructures: a cornerstone for nanomedicine - ITACA.SB**

Giancarlo Tria, CNR-IC c/o DiSTaBiF University of Campania "Luigi Vanvitelli"

17:15 - 18:00 **Break & Poster session**

18:00 - 19:00 **Inorganic nanoparticles as emerging tools for tumour therapy and imaging**

Teresa Pellegrino - Italian Institute of Technology

October 10th

Session 2 - Nano- and bio-materials for medicine/1

09:00 - 10:00 **Integrating lipid scaffolds and inorganic nanoparticles to develop hybrid functional materials for nanomedicine**

Lucrezia Caselli - Center for Colloid and Surface Science (CSGI) - UniFI

10:00 - 11:00 **Natural products loaded in nanocarriers to cross biological barriers**

Annarita Bilia - Dept. of Chemistry "Ugo Schiff", University of Florence

11:00 - 11:30 **Break & Poster session**

11:30 - 11:45 **Presentation of PRP@Ceric Research Infrastructure**

Stefano Cozzini - Institute of Research and Technology (RET) at Area Science Park

11:45 - 12:00 **The INF-ACT Extended Partnership program. A multidisciplinary challenge addressing emerging infectious diseases**

Federico Forneris - INF- ACT Foundation

12:00 - 13:00 **Synthetic DNA-based devices, switches and genes for clinical applications**

Francesco Ricci - University of Rome Tor Vergata

13:00 - 14:15 **Lunch**

Session 2 - Nano- and bio-materials for medicine/2

14:15 - 14:30 **PRP@CERIC short talk**

Stefano Cozzini - Institute of Research and Technology (RET) at Area Science Park

14:30 - 15:30 **Designing and testing a nanoparticle for biomedical applications: the poly(lipoic) nanoparticles case**

Fabrizio Mancin - University of Padua

15:30 - 16:30 **Programmed assembly of photo- and thermoresponsive protocells into protocellular materials capable of photo-mechano-chemical transduction**

Pierangelo Gobbo - University of Trieste and INSTM unit of Trieste

16:30 - 17:30 **Break & Poster session**

17:30 - 19:00 **Debate** on "Exploring the Complexities of Scientific Research: A Debate on Ethics, Quality, and Academic Expectations" moderated by **Roberta Sessoli** - University of Florence

October 11th

Session 3 - Therapeutics nanotechnological approaches

9:00 - 10:00 **Multifunctional glycobiomaterials mimicking extracellular matrix (ECM): from 3D tissue mimetics to ai-guided predictive synthesis**

Laura Russo - University of Milano-Bicocca

10:00 - 11:00 **The nano-bio interface imparts emerging properties to biomimetic nanoparticles**

Ennio Tasciotti - IRCCS San Raffaele

11:00 - 11:30 **Break & Poster session**

11:30 - 12:30 **Natural products in drug discovery for immunotherapy**

Angelo Fontana - Institute of Biomolecular Chemistry - CNR

12:30 - 13:30 **Replicating human tissues in vitro for regenerative, personalized and precision medicine**

Giorgia Imparato - Center for Advanced Biomaterials for HealthCare@CRIB

13:30 - 14:00 **Concluding remarks**